

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

09/16/2011

Larry Bates  
Assistant District Attorney, Suffolk County

Dear ADA Bates,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samp [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631

## Curriculum Vitae

### Annie Khan (Dookhan)

#### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.  
University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

#### **Experience:**

2003 – present

#### Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- \*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Maintenance and repairs of all analytical instruments.
- \*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- \*Oversee the Quality Control/Quality Assurance program for the Drug Lab.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.
- \*Notary Public.
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

#### QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- \*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Trained and supervised new chemists and interns for the department.
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

#### **Additional Training:**

Dept. of Justice – Forensics Professionals. (numerous trainings)  
GLP/GMP training with Massachusetts Biologic Laboratory.  
QC/QA training according to FDA Codes and Regulations.  
GC and GC/MS trainings with Agilent Technologies and Restek.  
HPLC and LC/MS/MS trainings with Waters Cooperation.  
FTIR training with Spectros.  
TOC training with MBL and Sievers.

#### **Association:**

American Chemical Society (ACS)  
Northeastern Association of Forensics Science (NEAFS)

# Curriculum Vitae

Kate A. Corbett

## Education

### **Bachelor of Science Degree, CHEMISTRY May 2003**

**MERRIMACK COLLEGE**

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

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## Employment

### **Chemist II State Laboratory Institute (March 2008-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

### **Chemist I State Laboratory Institute (2005-March 2008)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

### **Research Associate (September 2003 – August 2005)**

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

### **Intern (March 2003 – August 2003)**

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

## DRUG RECEIPT

CC # \_\_\_\_\_  
BOOK # \_\_\_\_\_  
PAGE # \_\_\_\_\_  
DESTRUCTION # \_\_\_\_\_District/Unit A-1 DCUName & Rank of Arresting Officer PO BYRNE ET AL ID# 95168

DEFENDANT'S NAME

ADDRESS

CITY

STATE

## LAB USE ONLY

DESCRIPTION OF ITEMS SUBMITTED

GROSS QUANTITY

GROSS WEIGHT

ANALYSIS NUMBER

CRACK cocaine

1 PIECE  
1 P/B containing  
33 PIECES1,90g  
6134g

CRACK cocaine

To be completed by ECU personnel only

Name and Rank of Submitting Officer

Received by

ID# 9370Date 11-10-10

ECU Control # \_\_\_\_\_

No. [REDACTED] Date Analyzed: 11/18/10  
City: Boston D.C.U. Police Dept.  
Officer: P.O. Diana Lopez  
Def: [REDACTED]  
Amount:  
No. Cont: 1 Cont: pb Subst: SUB  
Date Rec'd: 11/10/2010  
Gross Wt.: 1.90  
No. Analyzed:  
Net Weight: 0.03  
# Tests: 600  
Prelim: Cocaine (10) Findings: Cocaine 2MAC

# DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXX AGENCY Boston ANALYST AJZ

No. of samples tested: \_\_\_\_\_ Evidence Wt. \_\_\_\_\_

PHYSICAL DESCRIPTION: Gross Wt ( ) : \_\_\_\_\_

off white chunky substance Gross Wt ( ) : \_\_\_\_\_

11-185 Pkg. Wt: \_\_\_\_\_

loose Net Wt: 0.0372

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate (→) +

Marquis —

Froehde's —

Mecke's —

### Microcrystalline Tests

Gold  
Chloride —

TLTA (→) +

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS Cocaine

DATE 11-18-10

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

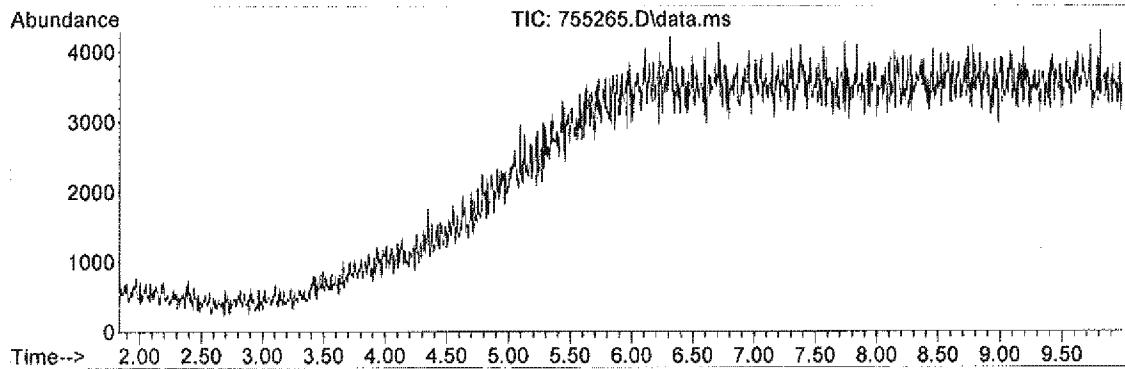
MS  
OPERATOR KAC

DATE 11-18-10

✓KAC  
9/15/11

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11\_16\_10\755265.D  
Operator : KAC  
Date Acquired : 17 Nov 2010 1:02  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

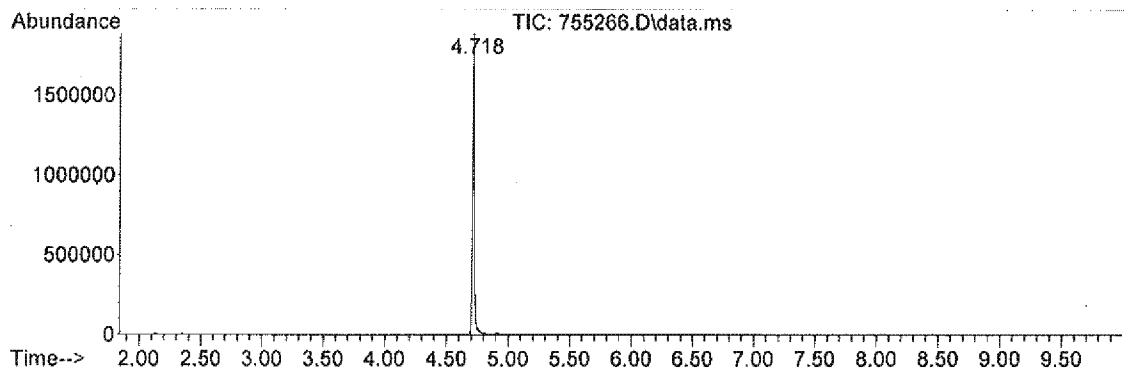
Area Percent / Library Search Report

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Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11\_16\_10\755266.D  
Operator : KAC  
Date Acquired : 17 Nov 2010 1:15  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 66  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.718     | 1955487 | 100.00 | 100.00  |

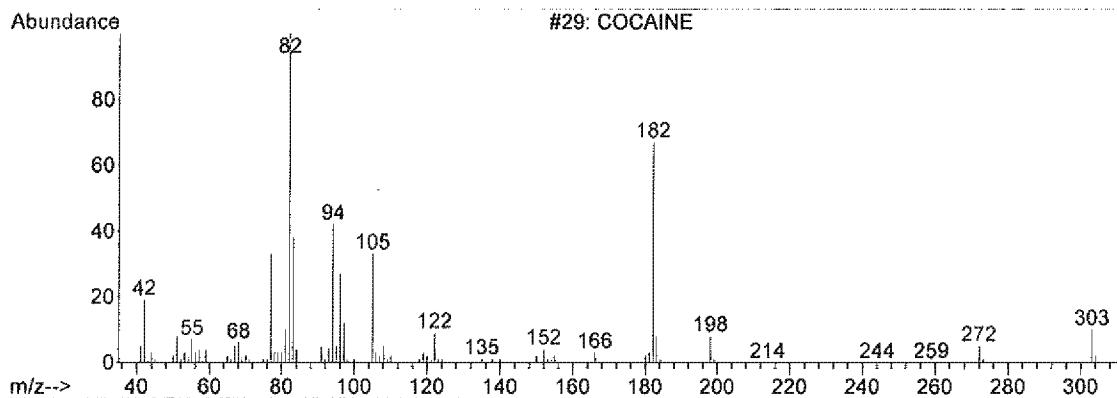
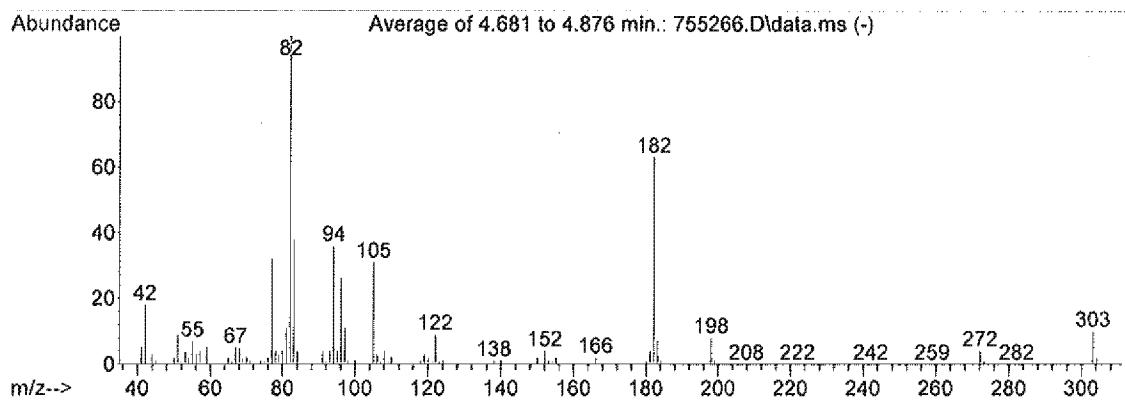
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## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11\_16\_10\755266.D  
Operator : KAC  
Date Acquired : 17 Nov 2010 1:15  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 66  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

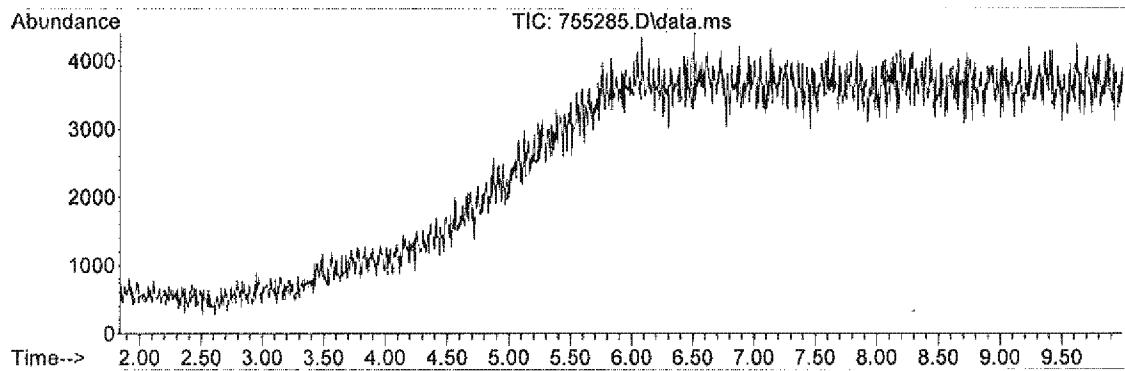
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.72 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11\_16\_10\755285.D  
Operator : KAC  
Date Acquired : 17 Nov 2010 5:15  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



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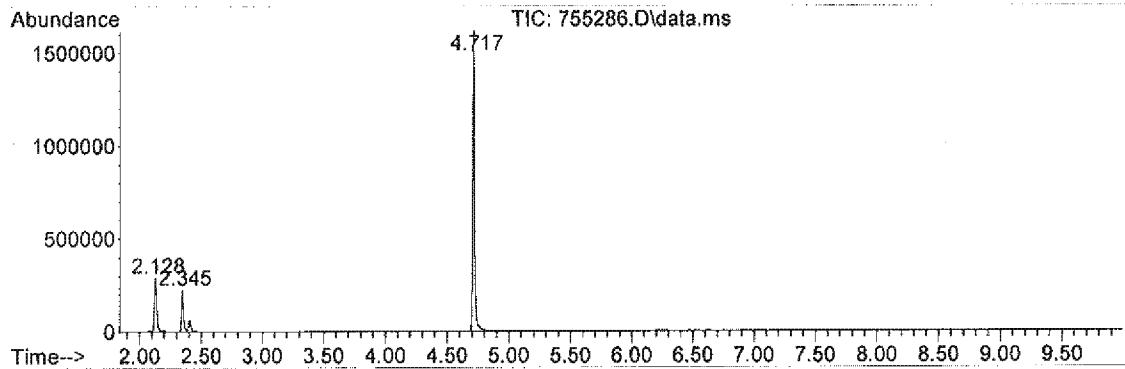
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11\_16\_10\755286.D  
Operator : KAC  
Date Acquired : 17 Nov 2010 5:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 86  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



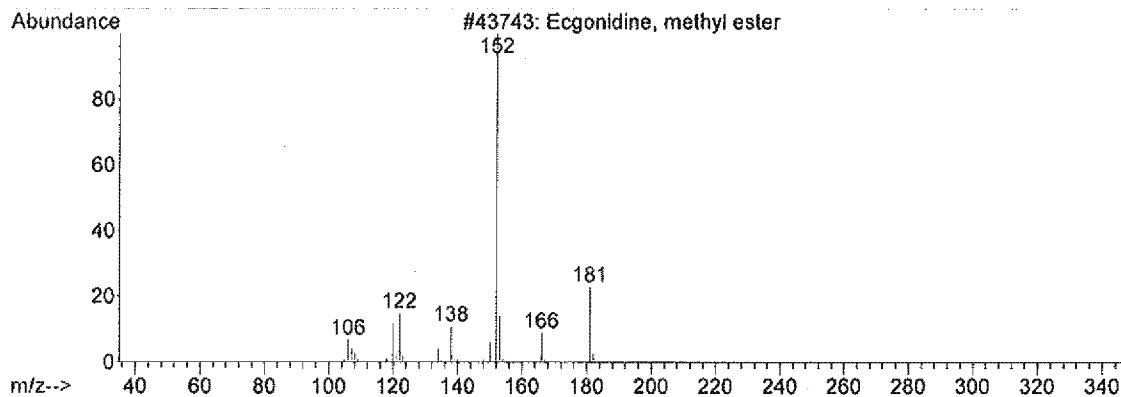
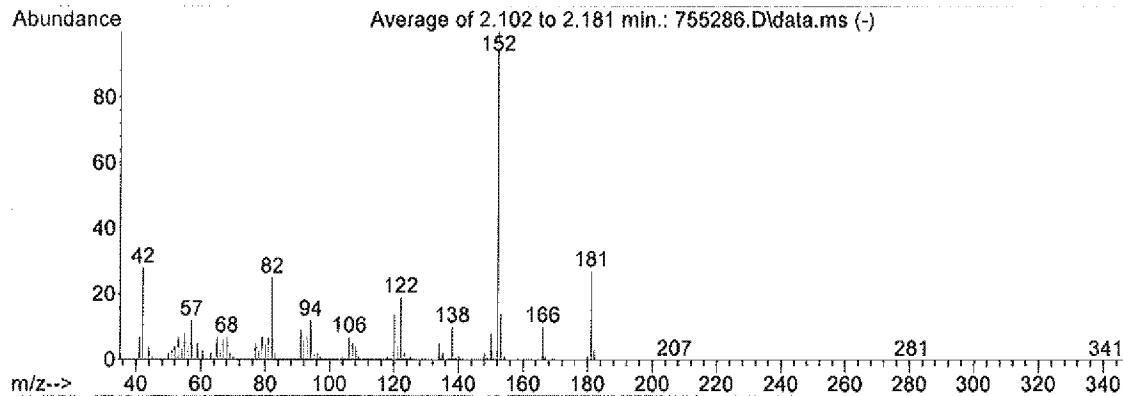
| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 2.128     | 340604  | 15.06  | 20.13   |
| 2.345     | 228803  | 10.12  | 13.52   |
| 4.717     | 1692186 | 74.82  | 100.00  |

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11\_16\_10\755286.D  
Operator : KAC  
Date Acquired : 17 Nov 2010 5:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 86  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1   | 2.13 | C:\Database\NIST05a.L               |             |      |
|     |      | Ecgonidine, methyl ester            | 127379-24-2 | 98   |
|     |      | 2-Carbomethoxy-8-methyl-8-azabicycl | 043021-26-7 | 97   |
|     |      | Benzeneethanamine, 3,4-dimethoxy-   | 000120-20-7 | 43   |

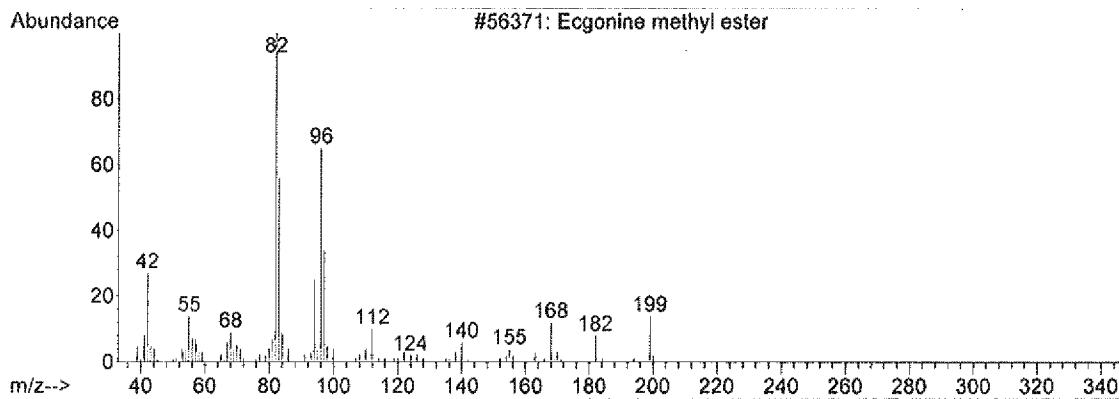
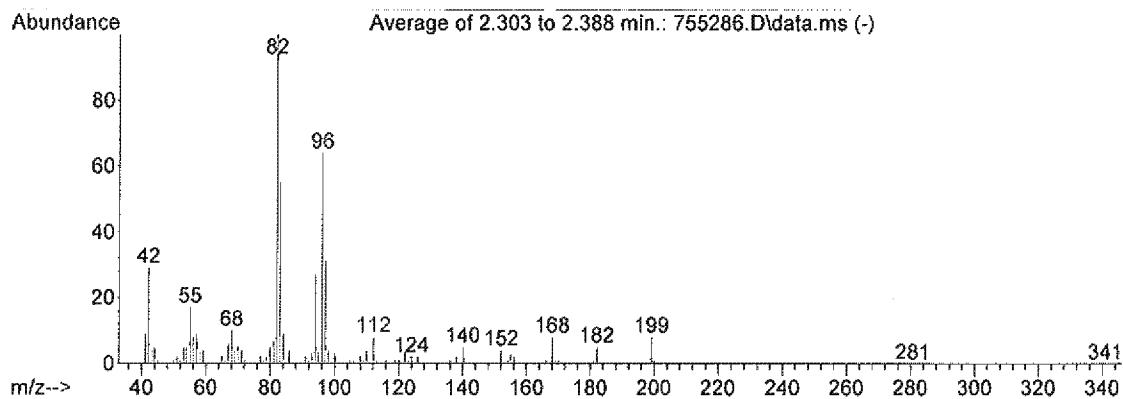


## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11\_16\_10\755286.D  
Operator : KAC  
Date Acquired : 17 Nov 2010 5:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 86  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID            | CAS#        | Qual |
|-----|------|-----------------------|-------------|------|
| 2   | 2.35 | C:\Database\NIST05a.L |             |      |
|     |      | Ecgonine methyl ester | 106293-60-1 | 98   |
|     |      | Ecgonine methyl ester | 106293-60-1 | 96   |
|     |      | Ecgonine methyl ester | 106293-60-1 | 95   |

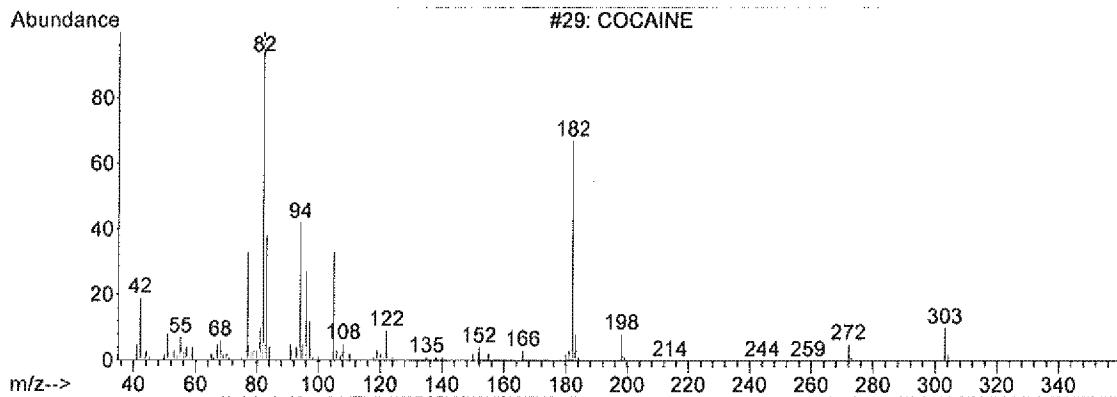
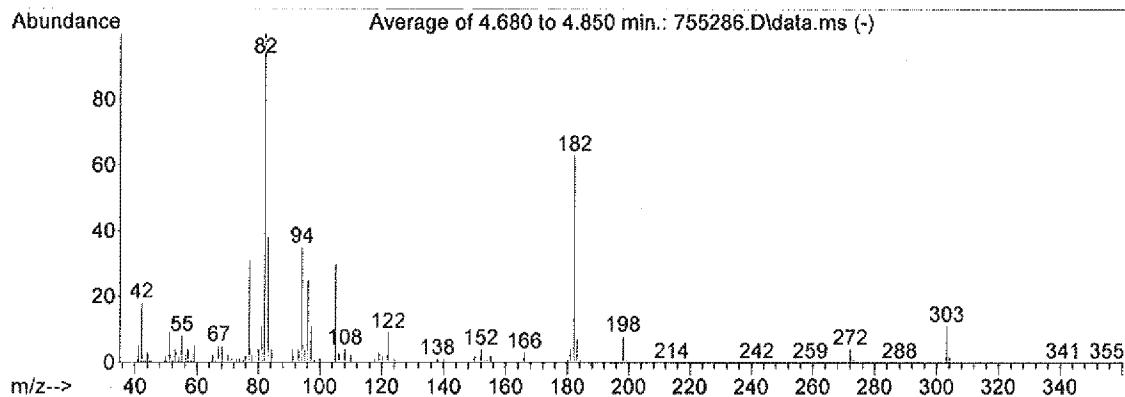


## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11\_16\_10\755286.D  
Operator : KAC  
Date Acquired : 17 Nov 2010 5:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 86  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

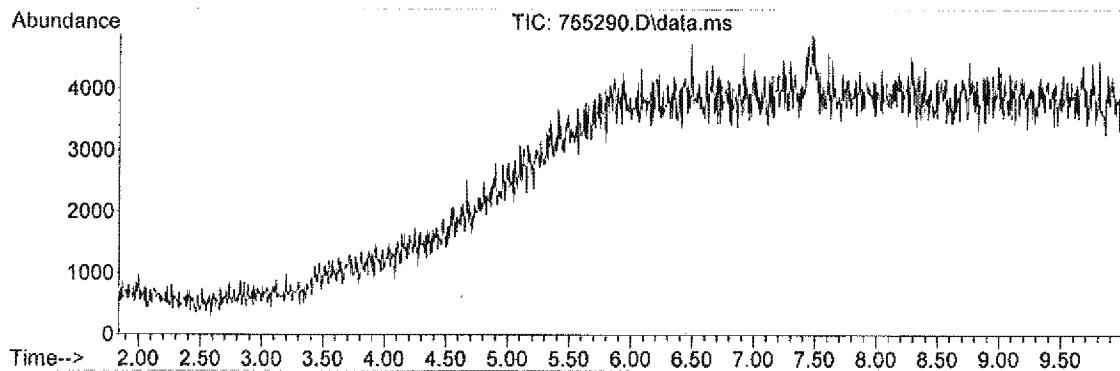
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 3   | 4.72 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11\_16\_10\755290.D  
Operator : KAC  
Date Acquired : 17 Nov 2010 6:18  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

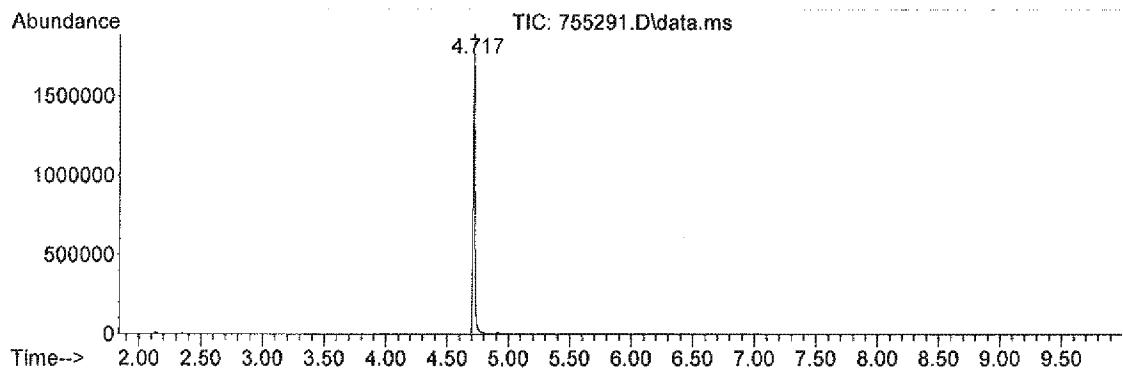


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11\_16\_10\755291.D  
Operator : KAC  
Date Acquired : 17 Nov 2010 6:31  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 91  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.717     | 1911134 | 100.00 | 100.00  |

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## Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11\_16\_10\755291.D  
Operator : KAC  
Date Acquired : 17 Nov 2010 6:31  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 91  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.72 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |

